

Inspection Report with SI&A Data

Structure Description: 63.45 Foot - Single Span Concrete Frame (except frame culverts)

2 District: 05 **3 County:** Jefferson **16 Latitude:** 38°14'16.00" **7 Longitude:** 85°39'52.00"

7 Facility Carried: I-64 EB

Milepoint: 0.380

6A Feature Intersected: OLD CANNONS LN

9 Location: EBL .3 MI W-KY 2048 NTRCH

NBI	X
Element	X
Fracture Critical	
Underwater	
Special	

Structure Description: 63.45 Foot - Single Span Concrete Frame (except frame culverts)

NBI CONDITION RATINGS			
58 Deck:	6	61 Channel:	N
59 Superstructure:	7	62 Culvert:	N
60 Substructure:	6	Sufficiency Rating:	98

GEOMETRIC DATA		
48 Max Length Span:		56.740 ft
49 Structure Length:		63.450 ft
32 Approach Roadway:		-3.281 ft
33 Median:		(0) No Median
34 Skew:		28°
35 Flare:		No Flare
50A Curb/Sidewalk Width L:		0.000 ft
50B Curb/Sidewalk Width R:		0.000 ft
47 Horiz. Clearance:		38.386 ft
51 Width Curb to Curb:		-3.281 ft
52 Width Out to Out:		42.670 ft
48 Max Length Span:		56.740 ft

DESIGN	
Substandard:	No
Fracture Critical:	No FC Details
43A Main Span Material:	(1) Concrete
43B Main Span Design:	(07) Frame
45 Number of Spans Main:	1
44A Approach Span Material:	Not Applicable
44B Approach Span Design:	Not Applicable
46 Number of Approach Spans:	0
107 Deck Type:	(1) Concrete-Cast-in-Place
108A Wearing Surface:	(3) Latex Concrete/Similar
108B Membrane:	(0) None
108C Deck Protection:	(0) None
Overlay Y/N:	Yes
Overlay Type:	Latex
Overlay Thickness:	1.250 in
Overlay Date:	2001

ADMINISTRATIVE		
27 Year Built:		1969
106 Year Reconstructed:		0
42A Type of Service On:		(1) Highway
42B Type of Service Under:		(1) Highway
37 Historical Significance:		(5) Not Eligible
21 Maintenance Responsibility:		(01) State Hwy Agency
22 Owner:		(01) State Hwy Agency
101 Parallel Structure:		(R) Right of II Structure
52 Width Out to Out:		42.670 ft

APPRAISAL	
36A Bridge Railings:	(1) Meets Standards
36B Transitions:	(1) Meets Standards
36C Approach Guardrail:	(1) Meets Standards
36D Approach Guardrail Ends:	(1) Meets Standards
71 Waterway Adequacy:	(N) Not Applicable
72 Approach Alignment:	(8) Equal Desirable Crit
113 Scour Critical:	(N) Not over Waterway
Recommended Scour Critical:	(N) Not over Waterway

CLEARANCES		
10 Vert. Clearance:		99.999 ft
53 Min. Vert. Clearance Over:		99.999 ft
54A Vert. Under Reference:		(H) Hwy beneath struct.
54B Min. Vert. Underclearance:		16.250 ft
55A Lateral Under Reference:		(H) Hwy beneath struct.
55B Min. Lat. Underclearance R:		10.000 ft
56 Min. Lat. Underclearance L:		0.000 ft

LOAD RATINGS	
63 Operating Type:	(1) Load Factor (LF)
64 Operating Rating:	60.0 tons
65 Inventory Type:	(1) Load Factor (LF)
66 Inventory Rating:	36.0 tons
Truck Capacity Type I:	tons
Truck Capacity Type II:	tons
Truck Capacity Type III:	tons
Truck Capacity Type IV:	tons

POSTINGS	
41 Posting Status:	(A) Open, No Restriction
Signs Posted Cardinal:	No
Signs Posted Non-Cardinal:	No
Field Postings Gross:	tons
Field Postings Type I:	tons
Field Postings Type II:	tons
Field Postings Type III:	tons
Field Postings Type IV:	tons

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38: Re Concrete Slab

Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	2,707	2,457	91%	250	9%	0	0%	0	0%

- 2001 latex overlay has some moderate map cracking in places.
- Depression in approach shoulder at southwest corner should be filled (looks like a sink hole) - no indication of leakage of water through Abutment 1 backwall or wingwall.
- Soffit coping at the north side of the bridge has some minor deterioration/spalling with some exposed reinforcement.
- Soffit has rust stains from the chairs/supports from the bottom mat of steel.
- Some transverse cracking over the NB and SB lanes.

510: Wearing Surfaces

Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	2,443	2,283	93%	160	7%	0	0%	0	0%

215: Re Conc Abutment

Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	97	73	75%	24	25%	0	0%	0	0%

- Minor hairline cracks and small areas of deterioration/spalling in legs/stems of rigid frame (considered as abutments for this element level inspection).
- Stone facings have some minor deterioration and/or scaling.

331: Re Conc Bridge Railing

Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	127	105	83%	22	17%	0	0%	0	0%

Barrier wall has minor cracks, most with efflorescence.

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851: Transitions

Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	0	0%	1	100%

- Pavement deterioration at both end of bridge. Greater than 1 in. at Abutment 2.

857: Embankment Erosion

Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

- Erosion has undercut asphalt shoulder approximately 2 ft depth x 3 ft width x 4 ft length at the southeast wing wall of Abutment 2.
 - Settlement at Abutment 1 shoulder from apparent loss of fill material.

859: Vegetation

Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	1	100%	0	0%	0	0%

- Vegetation on the south side of the bridge is slightly restricting proper inspection access.

STRUCTURE NOTES

-1.25" latex overlay in 2001.
 -There is no specific element level condition state assessment of concrete rigid frame bridges. Elements utilized to best describe this rigid frame during this inspection comply with the 2012 BIRM recommendations. TK 4/8/2013

INSPECTION NOTES

Standard Inspection by A. Porter and L. Boller (DLZ).

WORK

Action: 1004 - Approach Roadway

Generated by user "APORTER" on 4/17/2015 - Both approaches exhibit deterioration. East end is the worst with potholes forming and elevation differences greater than 1 in.

Action: 1056 - Misc-Remove Vegetation

Generated by user "APORTER" on 4/17/2015 - Vegetation on south side of bridge is slightly restricting proper inspection access and should be considered for removal.

90 Inspection Date - 4/15/15
Inspector - APORTER (224)

056B00143R - **8** Bridge ID
Standard - Primary Inspection Type

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